Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JST-106-PCT	FOR FURTHER A	ACTION	See Form PCT/IPEA/416		
International application No. PCT/JP2004/004428	1	ate (day/month/year) 04 (29.03.2004)	Priority date (day/month/year)		
International Patent Classification (IPC) or n G01N 21/55		•	23 April 2003 (23.04.2003)		
Applicant					
JAPAN	SCIENCE AND T	ECHNOLOGY A	GENCY		
This report is the international prelin Authority under Article 35 and trans	ninary examination rep mitted to the applicant	port, established by this according to Article 36	International Preliminary Examining		
2. This REPORT consists of a total of	3 sheets	, including this cover s	heet.		
3. This report is also accompanied by ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating	ng to the following iter	ns:			
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of submission of the demand		Date of completion of this report			
18 February 2005 (18.02.2005)		18 Ma	arch 2005 (18.03.2005)		
Name and mailing address of the IPEA/JP		Authorized officer			
Facsimile No.		Telephone No.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/004428

Box No	· · ·	Basis of the report						
1. With other	regard	to the language, this report is based on the international application in the landicated under this item.	nguage in which it was filed, unless					
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:							
	international search (under Rules 12.3 and 23.1(b))							
	publication of the international application (under Rule 12.4)							
İ	international preliminary examination (under Rules 55.2 and/or 55.3)							
Juim	ire not	to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referred annexed to this report): ternational application as originally filed/furnished	(replacement sheets which have been ed to in this report as "originally filed"					
\bowtie	the de	scription:						
ĺ	pages	1-27	, as originally filed/furnished					
	pages'	Tooched by this Additionty on						
	pages'	received by this Authority on						
\boxtimes	the cla	ims:						
	pages	7-10	, as originally filed/furnished					
	pages*	, as amended (tog	ether with any statement) under Article 19					
	pages*		18 February 2005 (18.02.2005)					
	pages*	received by this Authority on						
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_	pages	1/13-13/13	, as originally filed/furnished					
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	pages*	received by this Authority on						
	a seque	nce listing and/or any related table(s) – see Supplemental Box Relating to Sec	quence I icting					
		c supplemental Box Rolling to bec	fucince Disting.					
3.	The on	andmonto have resulted in the control of						
3. 🔼		endments have resulted in the cancellation of:						
	<u> </u> '	he description, pages						
	<u> </u>	ne claims, Nos2						
	☐ t	ne drawings, sheets/figs						
		ne sequence listing (specify):						
		ny table(s) related to sequence listing (specify):						
1	made, the first transfer of transfer	port has been established as if (some of) the amendments annexed to this resince they have been considered to go beyond the disclosure as filed, as in 0.2(c)). The description, pages	port and listed below had not been indicated in the Supplemental Box					
		es, some or all of those sheets may be marked "superseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/004428

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement					
Novelty (N)	ty (N)	Claims	1, 3-11	YES	
		Claims		МО	
Inventive step (IS)		Claims	1, 3-11	YES	
		Claims		МО	
Indust	rial applicability (IA)	Claims	1, 3-11	YES	
		Claims		МО	
				·	

2. Citations and explanations (Rule 70.7)

Document 1: JP 2001-511249 A (Biacore AB.), 07 August, 2001, Full text & WO 98/34098 A

Document 2: JP 9-257701 A (Toto Ltd.), 03 October, 1997 Full text, (Family: none)

Document 3: JP 2002-214133 A (President of Hachinohe National College of Technology), 31 July, 2002, Full text (Family: none)

Claims 1, 3 to 11

Document 1 describes the invention of a differential surface plasmon resonance measuring device wherein light beams are scanned at angles including a resonance angle respectively in relation to different locations 1', 2', and 3' of a prism, and the reflected light is detected at corresponding locations 1, 2, and 3 of a line sensor.

Document 2 describes the invention of a differential surface plasmon resonance measuring device wherein antibody active region 33A and non-active region 33B are disposed in parallel and at the same time convergent light is entered in those regions, a resonance angle is measured and compared in a CCD.

Document 3 describes a well-known technology of forming an optical interface film having an equivalent level of index of refraction and adhesion such as PVC on a thin metal film in a differential resonance measuring device.

In SPR, however, projecting SPR reflected light induced in a sample solution portion with a reference solution portion using a plurality of mirrors on a series of CCD is not described in any of the documents.